Operating Three Big Dredges.

which is engaged in placer mining by means of dredges in Alder gulch, at the town of Ruby, near the mouth of the gulch, has made extensive improvements in its plant during the

The company was originally organized as the German Bar Mining company and began operation in Alder guich in 1897, its plant being located on what was known in the early days as German bar, just below the town of Adobetown, about two and one-half miles below Virginia City. The ground was worked by means of what was known as the Ledgerwood cableway, which consisted of a tower 30 feet inches square, over which a two-andone-quarter inch wire cable extended some 400 feet to a stamp-propelled car which ran on a circular track. The digging bucket, with a capacity of a yard and a half of gravel, ran on this cable. It would dig a bucketful of gravel from the bottom of the pit and then was hauled to the hopper in the tower and the contents dumped automatically into the flume. The idea of this cableway was taken from those in use on the Chicago drainage canal, then in course of construction. This method was used three seasons, operating during the summer months only.

In 1899 the German Bar company was reorganized into the Conrey Placer Mining company, so named for the Conrey ranch at the mouth of Alder gulch, which was purchased by the company from Philip Conrey for the sum of 30,000\$. The company decided to discard the cableway and use the dredging method of mining, and, accordingly, built what is known as dredge No. 1. which was put in operation in the fall of 1899. This dredge was not built strong enough and was unable to dig the gravel without continual breakage, and after operating it a couple of seasons all the weak parts were replaced with stronger material and it was found to work admirably. and another boat, known as dredge No. 2, was constructed and put in operation in July, 1902. This boat was built stronger than No. 1 and worked successfully from the start. These dredges were of the open connected endlesschain bucket type, there being a bucket every other link. The buckets on No. 1 had a capacity of six and onehalf cubic feet and on No. 2 they held 10 cubic feet each. The gravel was bottom of the ponds in which the boats were floated, from a depth of from 30 to 37 feet below water level, and dumped into the hopper, from which style of mule team hauls will be very Further than saying that the test was Much ore has been opened it was washed by a 10-inch stream of water into a revolving grizzly with holes about four inches square. The of the grizzly and fell onto an inclined rock chute placed crosswise of the boat, which guided the stones back into the pond and underneath the bost. The smaller gravel, sand and gold fell through the holes in the grizzly into a sluice box which began underend of the boat, and discharged into a flume. Riffles placed in the sluice box gathered by means of quicksilver.

While these dredges were successful in saving the gold and moved a large amount of gravel daily, they were opline was run to Ruby from the plant of ago when attention was attracted by rophon, Temeraire and Superb, will lisher of the Financier of New York, ors, all the old features and several in the Madison canyon, some 25 miles cline shaft. placed in operation in September, 1906. ore now being taken out, and examinthree big battleships whose keels are fying themselves of its value. The the hull is eight feet deep. The dis- vious to the late strike, it appears count of the men-of-war on the stocks not to exceed 100,0008. This is the tance from the surface of the water to that the Arizona & Michigan Develop- of Continental Europe, 19,000,000 lbs. third big sale Col. Denton has put the tumbler shaft is 33 feet, which disment company has penetrated the sec- of lake and electrolytic copper will be through within the last sixty days in quantities. Agents wanted. Word

cubic yards of gravel per month.

were virtually rebuilt to conform to hued. have a bucket on every link, what is could get back. known as the close-connected endlesshandle from 15,000 to 20,000 cubic wise. yards more. Dredge No. 1 is 96 feet The latest report is that the entire Minnie Healey. the surface of the water.

Mines in Yuma County Showing Up Well

Martin Edwards, interested with Charles Sam in the Ironwood claim Cananea Smelter Resumes Full Work. Snohomish mines, in which the Coalinear Kofa, came in yesterday after- A pleasing and surprising sequel to tion owns controlling interests. The tion of the district means a great deal noon with a few ounces of the main the driving of the gold spike on the new engine is capable of hoisting the for individuals owning property in that lead of their mine taken from the completion of the Cananea-Nogales seven-ton skip load from a depth of neighborhood and if development work ledge which they have uncovered at a branch of the Yaqui River road, was 3,500 feet. It is equipped with drums on the Weaver claims proves successdepth of 250 feet, and into which they the blowing in of the two idle furnaces 12 feet in diameter, and one and a half ful, there will be considerable activity have penetrated 22 feet. They never at the Cananea smelter, which put the inch steel round ropes are used. The in the upper country.--Copper Era. drilled through the vein, but have entire plant into operation for the plant includes a large boiler house changed the works and are sinking on first time in about a year. After driv- with equipment, carpenter shop, hoistit. The sample that he has brought in ing the spike in the railroad track, ing engine building, miners' change came from a depth of 20 feet on this Gov. Torres proceeded with officers of house, sanitarily constructed, with hot last strike, and it leaves a long string the mining company and a few invited and cold water and shower baths, capwhen burned that would indicate a guests to the smelter, where the gov- able of accommodating 1,500 miners; value of at least 1008 per ton, and may ernor formally blew in the two fur- machine shops, warehouses, office buildgo much higher.

Mohawk station and the King of Ari- starting of the two additional furnaces to the large hoisting engine, another zona mines always was large, but of at the smelter was wholly unexpected engine of good size is in use for sinklate years it is growing so that the by the public, as with characteristic ing and lowering supplies and handman who held the contract to deliver secrecy, the officers of the company ling the men through the third comthe goods has been looking for a had not made their intentions known. partment of the shaft. cheaper means of making the delivery. This will add almost 50 per cent to the ground Mr. Norton will have three southwest. - South-Western Mines. large twenty-horse traction trucks placed on the run. These big machines are guaranteed to haul, over ten per brought up by the buckets from the cent grades, a ton to the horse power, der the direction of Mr. Fink, the in- workings on the 1,110 foot level, and great.

Kofa country yesterday, who are going last night, but that both were quite more than 35 feet wide there, but sanctum Wednesday. They have been larger gravel and boulders came out to look at the Max Engasser claims, elated over the matter was evident more than a dozen other veins of vary-successfully operating the plant for which lie six miles east of the King of when both men were seen at the New- ing sizes have been opened on that several months past and are now pre-Arizona, and which have had very house residence last evening. "We level, the smallest being about four paring to increase the capacity of the much development work done on them. will not make any statements immedifiet wide and full of ore assaying 20 plant from 30 to 60 tons at a charge. These properties were located in 1883 ately," stated Mr. Newhouse to the per cent copper. Similar conditions Mr. Hoyt stated that he is making an and have been worked continuously Herald reporter, "except that we are prevail on the 14th level, where the extraction of 98 and 2-10 per cent of ever since, but only in the way of de- well satisfied with the test. The smel- veins have been opened extensively by the silver values of these old tailings, neath the grizzly and ran to the rear to show up very fine in gold and cop- two hours and for all the rest of the level the largest vein opened is more ings average about 108 per ton and per, and the owner thinks that he has day, the desired degree of heat was than 50 feet wide and 35 feet of it is there are nine thousand tons to be something that will place him beyond obtained and kept up with less than of a fine grade of ore. Another vein treated yet. Different persons have and flume caught the gold, which was the fear of want forever and a day. two tons of slack coal. This ordinarily is 25 feet wide and carries considerable tried to successfully treat these tail-Yuma Sun.

Big Strike in the Arizona-Michigan.

erated by steam power, which was very Arizona & Michigan Development Co. ing this matter, I believe."-Salt Lake expensive owing to the cost of coal, struck the second enrichment in its Herald. and the company decided to build an- deepest workings over two weeks ago, other dredge, to be operated by elec- and has been sinking in it ever since, was constructed and an electric power on the people of Johnson a few days launched in Great Britain, Belle- Little Butte, to Louis Campton, pubthe Madison River Power company, the rich ore being taken from the inconsume 3,650,000 lbs of American lake and J. E. Myer, a Los Angeles broker.

43 feet below the surface of the water. and the surface, while rich enough to pean yards will consume 57,000,000 lbs. new year with high hopes.—Yuma to Prof. Hicks to possess the Hick's It is of the open-connected-endless- be pronounced the highest grade si- of copper within a year.

the electrical machinery, and were Ed. Johnson, an old timer in John- 000,000 lbs. of copper a year in various completed and placed in operation the son, who has watched the different forms of bronze and brass. past summer. Dredges Nos. 1 and 2 mining operations of the district, said are what are known as the California this was an important thing for the style of dredge, or stacker and table whole district. He said other mining type, and the machinery is different men had gophered around and taken the Butte Coalition company has bein some details from that of No. 3. in- ore from near the surface, but feared gun the use of the new Tramway shaft stead of using the open-connected end- to go down deeper after more, less and hoist for mining operations in the dianas, or two Illinois. It is larger less-chain buckets, the new dredges they might expend more than they Minnie Healey and a portion of the

gravel per month each, but they will conrage others who are able to do like-

long and 44 fect wide, with a nine-foot shaft is bottomed in ore of the second nine-foot hull, and delivers the gravel the shaft follows the dip, its roof is to will be hoisted daily. ore body is.

naces by pressing a button which had ings, etc.; steel head frame 92 feet The freight business between the been prepared for the occasion. The high to the sheaves, etc. In addition

Fink Smelter is a Success.

highly satisfactory, neither owner nor 13th level, and fully 50 per cent of it tailings of the old Silver King mine, Experts were seen on their way to inventor desired to express himself is first-class. The vein is said to be was a visitor at the Blade Tribune velopment, not as a mine. It is said ter was blown in at 11 o'clock and in crosscuts and drifts. On the 1,500 foot and is making a good profit. The tailwould have required the burning of a glance. On the 16th level the first ings during the past, by various leachgreat number of tons of coal . Within good ore has been found in the Trama few days we will be able to give out way vein, there being more than 30 A Benson dispatch says: Though the some interesting information concern- feet of good commercial ore in it.

Copper Going Into Ships.

chain bucket style and dumps eight licious camp in Arizona, have more or Although work is slack at domestic buckets of 15 cubic feet each every less a leached appearance, showing shipyards, tonnage under contract will The Conrey Placer Mining company, minute and has a capacity of 125,000 that the action of water, peculating call for the consumption of 6,000,000 slowly through them for centuries, has lbs. of lake, electrolytic and casting Hundreds of people living in Arizona This dredge proved so successful that taken part of the copper in solution to copper within a year. The navy yards, do not realize the extent or size of it was determined to change the two lower depths; while the ore now being ordnance works and the mint are other dredges throughout and operate taken out is not leached in appearance, consuming annually about 12,000,000 suffice many of the old settlers. The them also by electricity. All the old but rich and lustrous in heavy copper lbs. of copper. The ship repairing machinery was removed and the boats sulphides, black, yellow and rainbow plants on both oceans and along the Great Lakes are working up about 10,-

Tramway Shaft in Operation.

Rarus mine. The Tramway vein will The A. M. D. Co. has boldly gone also be mined through the new shaft. area of Denmark, Greece, Portugal tapering to a saddle block, about 18 chain, which dumps 18 buckets, each down, after reaching a depth where The shaft is something more than 1,600 of seven and one-half cubic feet capac- others had stopped, and now the cour- feet deep, and will be sunk deeper, ity, every minute. These dredges have ageous adventure has been rewarded while mining is going on in the 13th, a capacity of 100,000 cubic yards of by very tangible results which will en- 14th and 15th levels. The 16th level is being opened from the Tramway through Tramway ground and into the Weaver mining claim, situated in the

With the operation of the new hoist hull, and delivers the gravel from a enrichment, and not only the bottom the output of the company, which is working a good force of men on the depth of 30 feet 26 feet above the sur- but the sides also. No foot-wall or now from 1,000 to 1,200 tons of ore per face of the water. Dredge No. 3 is hanging-wall is in sight, and as the day, will be increased gradually until, ver struck some good ore on the prop-106 feet long and 44 feet wide, with a formation dips about 40 degrees, and a few months hence, at least 2,500 tons erty, but the grade of the ore was not

Some wonderful results have been That means is now found, and as soon output of the smelter and will be of brought about by the development of as the machines can be placed on the great benefit to Cananea and all the the 13th, 14th and 15th levels, and will be duplicated on the 16th. They have practically made a new mine out of the Minnie Healey. The 13th level is At 11 o'clock yesterday morning, un- 60 feet below the lowest of the old and can do much better than that. ventor, the new process smelter built that 60 feet of ground will be left there The fuel used will be gasoline and the by Samuel Newhouse at Arthur, half as a barrier against the fire and gas

Much ore has been opened on the now operating a cyanide plant on the

Big Mining Sale.

Col. J. C. Denton, of Bouse, has concluded the sale of the Manipulator The three big battleships recently group of copper claims, embracing the and electrolytic copper, and 1,000,000 Experts examined the property and tronomical year book and the only one After inspecting the great blocks of lbs will be required for each of the the purchasers bought only after satis-It is 130 feet long, 48 feet wide, and ling the ore which was extracted pre- to be laid at once in England. For ac- price paid is not divulged, but it is stands 30c. One copy free with Word needed within a year. The mercantile this camp, and as it assures big capiwater. It digs gravel from a depth of Ores from workings between this marine contracts under way in Euro-Sun.

Our Large Territory.

A White River correspondent of a southern Arizona paper says that: the territory. A few comparisons will eastern border is 399 miles long, and the north boundary 285 miles. The longest line running east and west across the territory just north of Pima county and terminating at Yuma on the Colorado river.

The territory contains 113,020 square A Butte, Mont., special says that miles. Arizona would make ninetyfour Rhode Islands, or fifty six Delawares, or nine Marylands, or three Inthan England, Wales and Ireland combined or greater than the combined and Belgium, with enough land left to make two and one-half Rhode Islands.

The Shannon Copper company, which corporation recently secured the Greenlee district above Clifton, has established quite a camp and is now property. Several years ago Mr. Weahigh enough to work on a small scale. from a depth of 34 feet 26 feet above ward the hanging wall, and this roof The new surface plant at the Tram- While there is no big showing yets is now rich salphide ore, just like the way is one of the largest and best in the Shannon company is almost certain best of that being taken out, so there the Butte district and was designed to to develop a good property. Sever 1 is no telling what the extent of this serve largely for all the operations in mining engineers have reported on the Rarus-Minnie Healey group of the property and the company is doing mines, including the Tramway and its work upon first-class advice. The

> A fine specimen of sulphide ore, assaying about 20 per cent copper, and weighing about one hundred pounds. was brought in last night by Frank Ewing from Lyons canyon, about fifteen miles southwest of Globe. The ore is from a recent strike on the Copper Sulphide group, owned by Lyman C. Woods and Ike Elliott, the strike having been made in a tunnel following the ledge, at a depth of about 35 feet. It is one of the finest specimens of sulphide ore brought to town for several months, being very similar to the sulphide from the Gibson mine, and shows considerable peacock copper. The ledge is a strong one and at the surface shows a width of fully twelve feet. There are five claims in the group, which is situated about one mile and a half southeast of the Independence mine, and two miles southeast of the Cole mine.-Globe Silv r

> F. S. Hoyt, of F. S. Hoyt & Co., ing processes, but all failed till Mr. Hoyt took hold of the matter. He is a master of the cyanide process.-Florence Blade.

The Rev. Irl R. Kicks Almanac.

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